

FORM PTO-1390 (Modified) (REV. 11-2000)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER 66307-313-7
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR)
INTERNATIONAL APPLICATION NO. PCT/GB03/00218	INTERNATIONAL FILING DATE 22 JANUARY 2003		PRIORITY DATE CLAIMED 25 JANUARY 2002	
TITLE OF INVENTION IMPROVEMENTS IN METHODS OF MANUFACTURING SUBSTRATES				
APPLICANT(S) FOR DO/EO/US ISHERWOOD, Roland; COMMANDER, Lawrence George				
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:				
<ol style="list-style-type: none"> <li>1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31).</li> <li>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c) (2)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</li> <li>11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409).</li> <li>12. <input type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</li> </ol>				
Items 13 to 20 below concern document(s) or information included:				
<ol style="list-style-type: none"> <li>13. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>14. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>15. <input type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>17. <input type="checkbox"/> A substitute specification.</li> <li>18. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.</li> <li>20. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>21. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>22. <input type="checkbox"/> Express Mail Label No.</li> <li>23. <input type="checkbox"/> Other items or information:</li> </ol>				

U.S. APPLICATION NO. (IF KNOWN, SEE 37 C.F.R. 1.492(a)(1)-(5))		INTERNATIONAL APPLICATION NO. <b>PCT/GB03/00218</b>		ATTORNEY'S DOCKET NUMBER <b>66307-313-7</b>	
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24. The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :</b> <input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... \$1080.00 <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... \$920.00 <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... \$770.00 <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... \$730.00 <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... \$100.00 <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>				<b>CALCULATIONS PTO USE ONLY</b>  <div style="border: 1px solid black; height: 100px; width: 100%;"></div>																																																																															
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (c)).				\$0.00																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">CLAIMS</th> <th style="width:20%;">NUMBER FILED</th> <th style="width:20%;">NUMBER EXTRA</th> <th style="width:10%;">RATE</th> <th style="width:15%;">FEE</th> <th style="width:10%;">TOTAL</th> </tr> <tr> <td>Total claims</td> <td>- 20 =</td> <td>0</td> <td>x \$18.00</td> <td>\$0.00</td> <td></td> </tr> <tr> <td>Independent claims</td> <td>- 3 =</td> <td>0</td> <td>x \$86.00</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="4">Multiple Dependent Claims (check if applicable) <input type="checkbox"/></td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="4"><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>SUBTOTAL =</b></td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="4">Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL NATIONAL FEE =</b></td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="4">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). <input type="checkbox"/></td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL FEES ENCLOSED =</b></td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;">Amount to be refunded</td> <td style="text-align: right;">\$</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;">charged</td> <td style="text-align: right;">\$</td> </tr> </table>				CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	FEE	TOTAL	Total claims	- 20 =	0	x \$18.00	\$0.00		Independent claims	- 3 =	0	x \$86.00	\$0.00		Multiple Dependent Claims (check if applicable) <input type="checkbox"/>				\$0.00		<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$0.00		<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$0.00		<b>SUBTOTAL =</b>				\$0.00		Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).				\$0.00		<b>TOTAL NATIONAL FEE =</b>				\$0.00		Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). <input type="checkbox"/>				\$0.00		<b>TOTAL FEES ENCLOSED =</b>				\$0.00						Amount to be refunded	\$					charged	\$		
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				charged	\$																																																																														

a. ☐ A check in the amount of \_\_\_\_\_ to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the above fees.

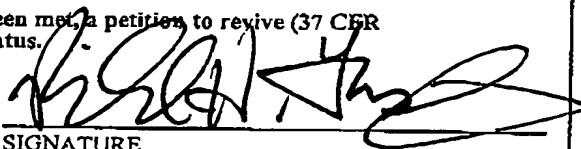
c. ☐ The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. \_\_\_\_\_

d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

**SEND ALL CORRESPONDENCE TO:**

Richard H. Tushin  
 DYKEMA GOSSETT PLLC  
 CUSTOMER NO. 25269

  
 SIGNATURE  
 Richard H. Tushin  
 NAME  
 27,297  
 REGISTRATION NUMBER  
 July 26, 2004  
 DATE

JLH

66307-313-7

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Roland ISHERWOOD et al.

Serial No.: 10/502,097

Filed: July 26, 2004

IMPROVEMENTS IN METHODS OF  
MANUFACTURING SUBSTRATES

) PATENT

) GROUP:

) EXAMINER:

) CUSTOMER NO.: 25269

) **BY FACSIMILE**  
**571-273-0459**

\*\*\*\*\*

RECEIVED

23 NOV 2004

Legal Staff  
International DivisionRESPONSE TO NOTIFICATION OF MISSING REQUIREMENTSCommissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

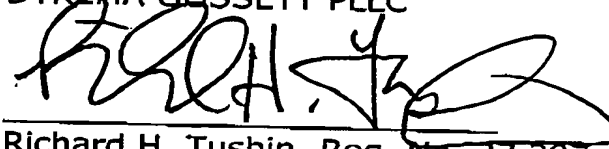
November 23, 2004

Sir:

According to the Notification of Missing Requirements, dated November 15, 2004 (copy attached), the executed Declaration and the associated government filing fee are due. However, the executed Declaration was filed in the Patent Office mail room on July 26, 2004, together with an authorization to charge the filing fee to Deposit Account No. 04-2223. A true copy of the filed documents and the associated date-stamped filing receipt are attached.

Respectfully submitted,

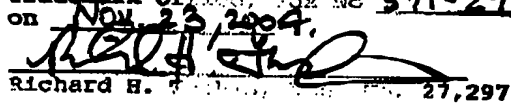
DYKEMA GOSSETT PLLC



Richard H. Tushin, Reg. No. 27,297  
Franklin Square, Third Floor West  
1300 I Street, N.W.  
Washington, DC 20005-3353  
(202) 906-8600

## CERTIFICATE OF TRANSMISSION

I hereby certify that this  
correspondence is being facsimile  
transmitted to the U.S. Patent and  
Trademark Office, Box No. 571-273-0459  
on Nov. 23, 2004.

  
Richard H. Tushin, Reg. No. 27,297

By:



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

U.S. APPLICATION NUMBER NO. 10/502,097	FIRST NAMED APPLICANT Roland Isherwood	ATTY. DOCKET NO. 66307-313-7
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25269  
DYKEMA GOSSETT PLLC  
FRANKLIN SQUARE, THIRD FLOOR WEST  
1300 I STREET, NW  
WASHINGTON, DC 20005

INTERNATIONAL APPLICATION NO. PCT/GB03/00218	
LA. FILING DATE 01/22/2003	PRIORITY DATE 01/25/2002

CONFIRMATION NO. 5522  
371 FORMALITIES LETTER



\*OC000000014355214\*

Date Mailed: 11/15/2004

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 07/22/2004
- Copy of the International Search Report filed on 07/22/2004
- Copy of IPE Report filed on 07/22/2004
- Preliminary Amendments filed on 07/22/2004
- Request for Immediate Examination filed on 07/22/2004
- U.S. Basic National Fees filed on 07/22/2004
- Priority Documents filed on 07/22/2004

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- \$130 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity.

- \$130 Late oath or declaration Surcharge.

DUE 1/15/05  
FOL 3/15/05  
ENTERED BY ASS ON 11/22/04

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

JOHN L ANDERSON

Telephone: (703) 308-9116

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/502,097	PCT/GB03/00218	66307-313-7

FORM PCT/DO/EO/905 (371 Formalities Notice)

## FILE COPY

DYKEMA GOSSETT  
THIRD FLOOR WEST, FRANKLIN SQUARE  
1300 I STREET, N.W.  
WASHINGTON, DC 20005-3306



THE PATENT AND TRADEMARK OFFICE OFFICIAL FILING DATE STAMP  
HEREON IS ACKNOWLEDGEMENT OF FILING:

<input type="checkbox"/> Preliminary Amendment	<input type="checkbox"/> Utility Patent Appln.
<input type="checkbox"/> Request for Reconsideration	<input type="checkbox"/> Pages of Specification
<input type="checkbox"/> Supplemental Amendment	<input type="checkbox"/> Pages of Claims
<input type="checkbox"/> Election Requirement	<input type="checkbox"/> Abstract of the Disclosure
<input type="checkbox"/> IDS w/PTO-1449 (___ Refs)	<input type="checkbox"/> Pages of Drawings
<input checked="" type="checkbox"/> Assignment w/PTO-1595	<input type="checkbox"/> Dec/POA
<input type="checkbox"/> EOT (___ month(s))	<input type="checkbox"/> Form PTO-1595
<input checked="" type="checkbox"/> Submsn of Dec/Filing Fees	<input type="checkbox"/> Other
<input type="checkbox"/> Translation of Appln.	<input type="checkbox"/> Postcard
<input type="checkbox"/> Priority Doc# _____	<input type="checkbox"/> Submsn of Formal Drwgs
<input type="checkbox"/> Part B-Issue Fee Transmtl.	

**TITLE: IMPROVEMENTS IN METHODS OF MANUFACTURING  
SUBSTRATES**

INVENTOR: Roland ISHERWOOD et al.  
SERIAL NO: (PCT/GB03/00218)  
DOCKET NO: 66307-313-7  
DATE: July 26, 2004 (DUE: 7/25/2004)  
CLIENT: BOULT WADE TENNANT

\*\* TOTAL PAGE.09 \*\*

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\*\*\* RX REPORT \*\*\*  
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RECEPTION OK

TX/RX NO	7573
RECIPIENT ADDRESS	202 906 8671
DESTINATION ID	
ST. TIME	11/23 11:48
TIME USE	02'01
PGS.	9
RESULT	OK